WHAT IS CLAIMED IS:

1. A magneto-optical recording medium comprising:

a substrate;

a first soft magnetic layer formed on the substrate;

a cured resin layer formed on the first soft magnetic layer having a pre-groove pattern on a surface to a back of the cured resin layer contacting with the first soft magnetic layer;

a recording reproduction layer formed on the cured resin layer; and

a protective film layer formed on the recording reproduction layer,

wherein the magneto-optical recording medium receives an irradiation of a light for recording reproduction and a supply of a magnetic field from a side of the protective film layer, and

wherein a ratio (Bs2 × t2 / Bs1 × t1) of a product Bs2 × t2 to a product Bs1 × t1 is not less than 0.2, where t1 denotes a film thickness of a second soft magnetic layer constituting a recording head for supplying the magnetic field to the magneto-optical recording medium, the recording head having a magnetic field generating coil, Bs1 denotes a saturation magnetic flux density of the second soft magnetic layer, t2 denotes a film thickness of the first soft magnetic layer, and Bs2 denotes a saturation

magnetic flux density of the first soft magnetic layer.

2. A magneto-optical recording medium comprising:

a substrate;

a first soft magnetic layer formed on the substrate;

a cured resin layer formed on the first soft magnetic layer having a pre-groove pattern on a surface to a back of the cured resin layer contacting with the first soft magnetic layer;

a recording reproduction layer formed on the cured resin layer; and

a protective film layer formed on the recording reproduction layer,

wherein the magneto-optical recording medium receives an irradiation of a light for recording reproduction and a supply of a magnetic field from a side of the protective film layer, and

wherein the first soft magnetic layer is formed by a metallic foil.

3. A magneto-optical recording medium according to claim 1, wherein the first soft magnetic layer is formed by a metallic foil.

4. A magneto-optical recording medium according to claim 2, wherein the metallic foil constituting the

first soft magnetic layer is put on the substrate.

5. A magneto-optical recording medium according to claim 3, wherein the metallic foil constituting the first soft magnetic layer is put on the substrate.

6. A magneto-optical recording medium according to claim 2, wherein the metallic foil constituting the first soft magnetic layer is formed in a united body with the substrate.

7. A magneto-optical recording medium according to claim 3, wherein the metallic foil constituting the first soft magnetic layer is formed in a united body with the substrate.

8. A magneto-optical recording medium according to claim 1, wherein the substrate has a preventing structure for preventing the cured resin layer from going out from the first soft magnetic layer when the cured resin layer is in a non-cured state.

9. A magneto-optical recording medium according to claim 2, wherein the substrate has a preventing structure for preventing the cured resin layer from going out from the first soft magnetic layer when the cured resin layer is in a non-cured state.

10. A magneto-optical recording medium according to claim 1, wherein the first soft magnetic layer includes a FeNi magnetic material.

11. A magneto-optical recording medium according to claim 2, wherein the first soft magnetic layer includes a FeNi magnetic material.

12. A magneto-optical recording medium according to claim 1, wherein the first soft magnetic layer includes a CoZrNb magnetic material.

13. A magneto-optical recording medium according to claim 2, wherein the first soft magnetic layer includes a CoZrNb magnetic material.

14. A magneto-optical recording medium according to claim 1, wherein the first soft magnetic layer is coated on the substrate.